

WHAT IS CLAIMED IS:

1. A material useful as a fuel heavier than gasoline or as a blending component for a distillate fuel comprising: a 250-700°F fraction derived from a Fischer-Tropsch catalyst process and containing

at least 95 wt% paraffins with an iso to normal ratio of about 0.3 to 3.0,

≤ 50 ppm (wt) each of sulfur and nitrogen

less than about 0.5 wt% unsaturates, and

about 0.001 to less than 0.3 wt% oxygen, water free basis.

2. The material of claim 1 wherein the oxygen is present primarily as linear alcohols.

3. The material of claim 2 wherein the linear alcohols are C₁₂+.

4. The material of claim 3 characterized by a cetane number of at least 70.

5. A process for producing a distillate fuel heavier than gasoline comprising:

(a) separating the product of a Fischer-Tropsch process into a heavier fraction and a lighter fraction;

(b) further separating the lighter fraction into at least two fractions, (i) at least one fraction containing primary C₁₂+ alcohols and (ii) one or more other

hydroisomerizing at least a portion of the heavier fraction of step (a) and at least a portion of the (b) (ii) fractions at hydroisomerization conditions and recovering a 700°F- fraction;

(d) blending at least a portion of the fraction (b) (i) with at least a portion of one of the 700°F- fractions of step (c).

6. The process of claim 5 wherein a product boiling in the range 250-700°F is recovered from the blended product of step (d).

7. The process of claim 6 wherein the recovered product of step (d) contains 0.001 to 0.3 wt% oxygen/water free basis.

8. The product of claim 7.

9. The process of claim 6 wherein the fraction (b) (i) contains substantially all of the C₁₂+ primary alcohols.

10. The process of claim 6 wherein the fraction (b) (i) is characterized by the absence of hydrotreating.

11. The process of claim 6 wherein the fraction (b) (i) contains C₁₂-C₂₄ primary alcohols.

12. The process of claim 5 wherein the Tropsch process is characterized by non-shifting conditions.

13. The process of claim 5 characterized in that the fraction b (ii) is 500°F-.

14. The process of claim 5 characterized in that the fraction b (ii) is 600°F-.